

CLAIMS:

1. A display device (1) comprising electrophoretic particles (8,9), an image screen comprising an array of display elements comprising a pixel electrode and a second electrode between which a portion of the electrophoretic particles are present, and control means (15) for supplying drive signals to the electrodes to bring display elements in a predetermined optical state corresponding to the image information to be displayed, wherein in operation the image is displayed in subsequent frames, said control means comprising a row driver (16) and a column driver (10), and means for supplying preset signals (53) to the display elements whereby the preset signals applied to display elements alter between subsequent frames, wherein the control means are arranged to change preset signals between frames in a column-to-column scheme and that the means for supplying preset signals are arranged such that for the preset signals to at least a part of the image screen comprising a group of columns and rows only one set of data is transferred for the preset signals for said group.
- 15 2. A display device as claimed in claim 1, wherein the group comprises at least two columns.
3. A display device as claimed in claim 1, wherein display screen is composed of $n \times m$ groups of columns and rows.
- 20 4. A display device as claimed in claim 2, wherein the display screen is composed of two groups of columns and rows.
5. A display device as claimed in claim 1, wherein the group comprises substantially all columns and rows of the image screen.
- 25 6. A display device as claimed in claim 3, wherein the display screen is divided in quadrants, to each quadrant a group is associated with its row and column driver.

7. A method for driving a display device (1) comprising electrophoretic particles (8,9), an image screen comprising an array of display elements comprising a pixel electrode and a second electrode between which a portion of the electrophoretic particles are present, and control means (15) for supplying drive signals to the electrodes to bring display elements 5 in a predetermined optical state corresponding to the image information to be displayed, wherein in operation the image is displayed in subsequent frames, said control means comprising a row driver and a column driver, and means for supplying preset signals (53) to the display elements whereby the preset signals applied to display elements alter between subsequent frames, wherein the control means are arranged to change preset signals between 10 frames in a column-to-column scheme and that the means for supplying preset signals are arranged such that for the preset signals to at least a part of the image screen comprising a group of columns and rows only one set of data is transferred for the preset signals for said group.